ODS 6646

OBSTRUCTION DATA SHEET

ODS 6646
PHOENIX - DEER VALLEY MUNICIPAL AIRPORT
PHOENIX, ARIZONA

DIGITIZED FROM

OC 6646
SURVEYED DECEMBER 1988
2ND EDITION

PREPARED AND DISTRIBUTED BY
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C 55.411/3:

OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA Nr. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS (and OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)

2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

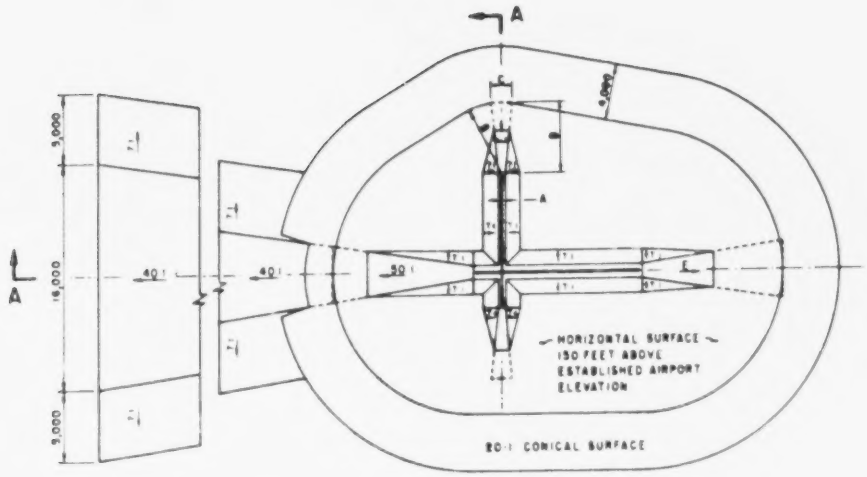
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C .... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D .... Nonutility runway - nonprecision instrument approach with visibility minimums as low as 3/4 mile
PIR ...... Precision instrument runway
SUPLC ... Supplemental C underlying a B(V)

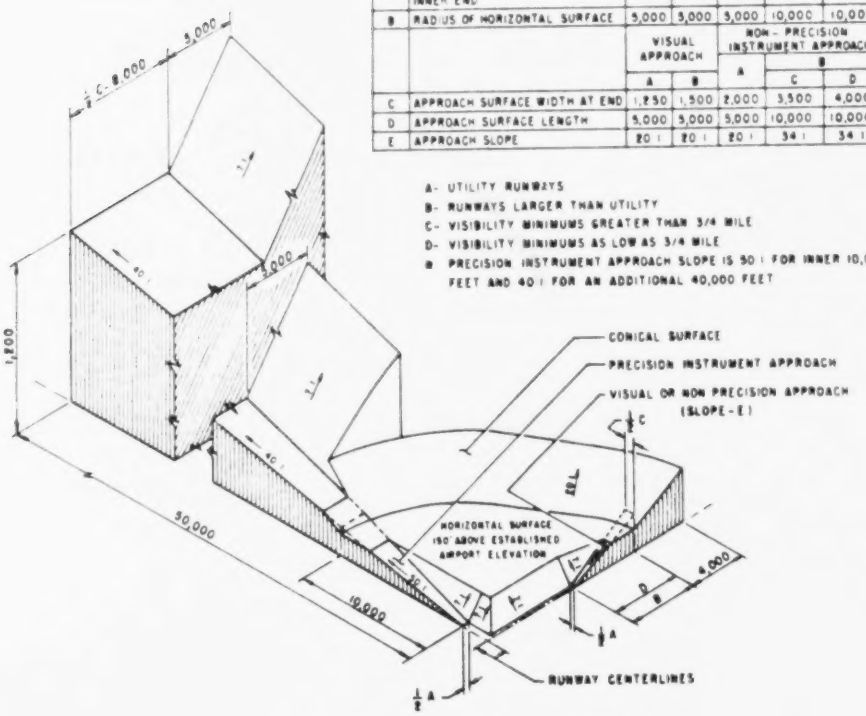
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B		
					C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
					C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

A- UTILITY RUNWAYS
B- RUNWAYS LARGER THAN UTILITY
C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

x^{1}	x^{2} XXXX/XXXX^{3}	XXXXXX.XXX^{4}	XXXXXXX.XXX^{4}	XXXXXXX^{5}	XXXX/XXXX^{6}	XXXXXX.XXX^{7}	XXXXXXX.XXX^{7}

OBJECT	LAT	LONG	A^{8}	ELEV^{9}	AGL^{10}	HAR^{11}	HAT^{11}	HAA^{11}	DEND^{12}	DTHR^{12}	DCLN^{12}	PNTR^{13}
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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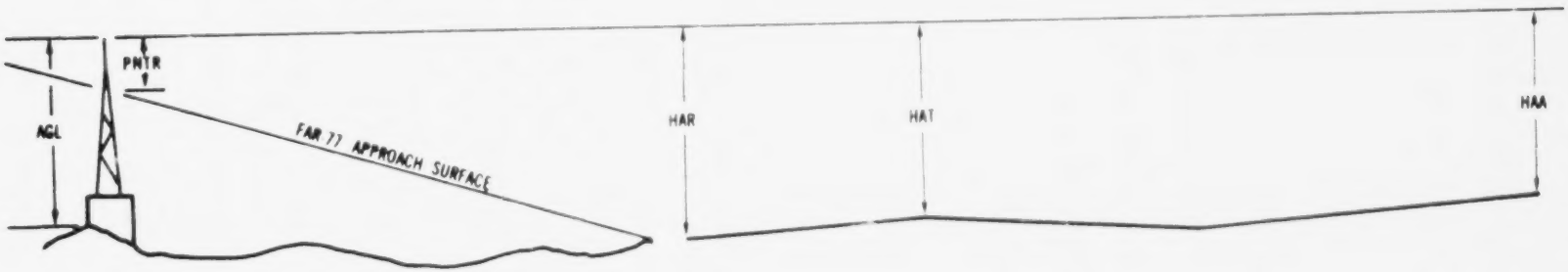

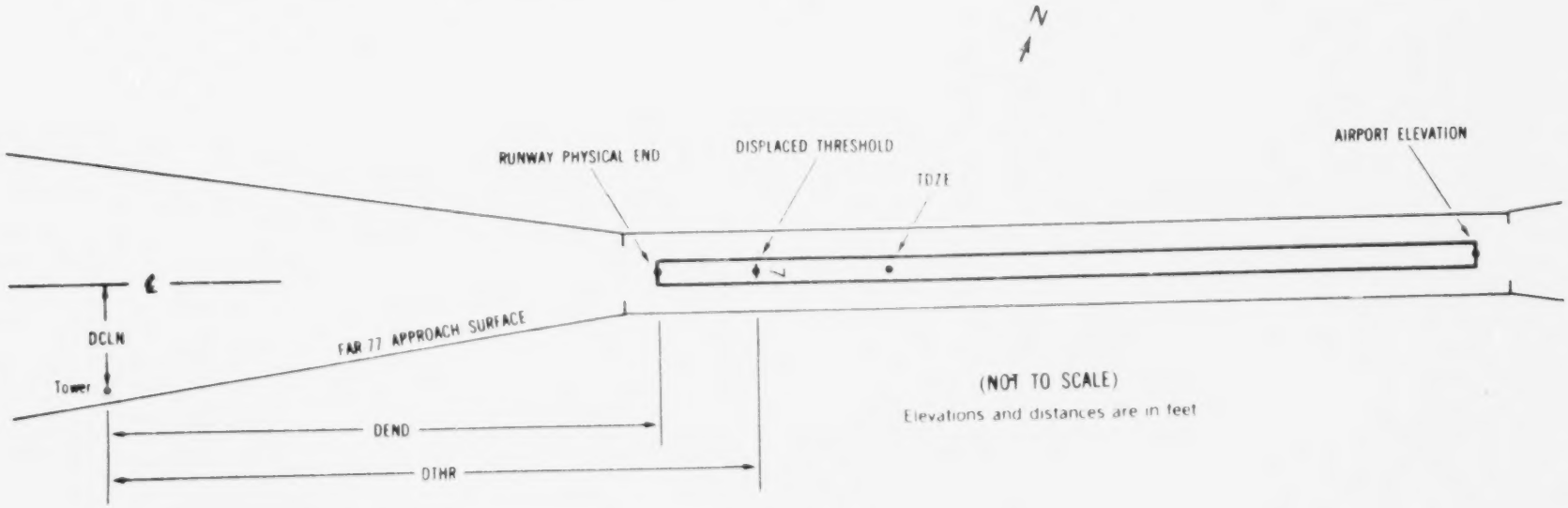

(NOT TO SCALE)

Elevations and distances are in feet

EXPLANATION OF FOOTNOTES

[1] Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary area of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.

[2] For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)

[3] Reference runway approach physical end elevation/touchdown zone elevation

[4] Latitude and longitude of reference runway approach physical end

[5] Reference runway geodetic azimuth reckoned clockwise from south

[6] Reference runway displaced threshold elevation/touchdown zone elevation

[7] Latitude and longitude of reference runway displaced threshold

[8] Accuracy Code:

Horizontal	Vertical
1 = 20	A = 2
2 = 40	B = 5
	C = 20

[9] Mean Sea Level (MSL) elevation at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.

[10] Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ±10 feet.

[11] HAA - Height above airport
HAR - Height above reference runway approach physical end
HAT - Height above reference runway touchdown zone elevation

[12] DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway threshold
DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft.

A negative value for DEND or DTHR indicates object is in primary area on roll-out side of zero distance point.

[13] PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC6646

AIRPORT ELEVATION 1476

7L SUPLC 1457/1471 334121.309N 1120511.215W 2655925

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
CACTUS	334125.04	1120440.35	1A	1486		29	15	10	-2628		194L	17
BUSH	334123.68	1120512.01	1A	1461		4	-10	-15	50		244L	4
FENCE	334120.20	1120530.96	1A	1454		-3	-17	-22	1672		4L	-46
FENCE	334118.16	1120531.73	1A	1452		-5	-19	-24	1752		196R	-51
TREE	334118.55	1120536.84	1A	1459		2	-12	-17	2179		127R	-56
BUSH	334114.38	1120543.07	1A	1445		-12	-26	-31	2735		511R	-87
FENCE	334117.22	1120546.74	1A	1444		-13	-27	-32	3023		202R	-96
POLE	334117.68	1120557.55	1A	1468		11	-3	-8	3931		92R	-99
POLE	334116.63	1120557.54	1A	1467		10	-4	-9	3938		198R	-100
FLOODLIGHT	334114.83	1120557.76	1A	1465		8	-6	-11	3969		378R	-103
WINDSOCK ON BUILDING	334112.14	1120557.91	1A	1452		-5	-19	-24	4001		649R	-117

OC6646

AIRPORT ELEVATION 1476

25R SUPLC 1475/1475 334123.935N 1120426.364W 0855950

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	334123.68	1120512.01	1A	1461		-14	-14	-15	-3849		244R	4
CACTUS	334125.04	1120440.35	1A	1486		11	11	10	-1171		194R	17
FENCE	334127.25	1120420.39	1A	1485		10	10	9	527		299R	0
BUSH	334126.66	1120416.92	1A	1496		21	21	20	816		219R	3
TREE	334127.90	1120415.86	1A	1502		27	27	26	913		338R	6
BUSH	334121.29	1120415.24	1A	1488		13	13	12	919		332L	-8
BUSH	334123.04	1120410.54	1A	1498		23	23	22	1327		184L	-10
CACTUS	334121.00	1120410.32	1A	1497		22	22	21	1331		391L	-11
BUSH	334126.48	1120408.75	1A	1501		26	26	25	1503		153R	-12
CACTUS	334122.17	1120406.46	1A	1499		24	24	23	1665		295L	-19
FENCE	334123.32	1120402.69	1A	1489		14	14	13	1992		202L	-39
CACTUS	334121.12	1120400.91	1A	1494		19	19	18	2126		434L	-38
CACTUS	334122.51	1120400.01	1A	1490		15	15	14	2211		299L	-44
POLE	334123.82	1120354.47	1A	1517		42	42	41	2688		200L	-31
OL ON HILL	334127.76	1120342.19	1A	1653		178	178	177	3750		125R	74
CACTUS	334125.70	1120340.97	1A	1591		116	116	115	3839		89L	9
TRANSMISSION TOWER	334116.70	1120252.53	1A	1598		123	123	122	7859		1282L	-102

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AIRPORT ELEVATION 1476

7R D 1438/ 334112.460N 1120544.049W 2660017 1443/1458 334113.080N 1120533.424W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE	334113.31	1120404.60	1A	1480		42	22	4	-8389	-7489	499R	4
CACTUS	334122.17	1120406.46	1A	1499		61	41	23	-8295	-7395	406L	23
CACTUS	334121.00	1120410.32	1A	1497		59	39	21	-7961	-7061	310L	22
BUSH	334123.04	1120410.54	1A	1498		60	40	22	-7957	-7057	517L	23
TREE	334120.31	1120411.33	1A	1497		59	39	21	-7871	-6971	246L	22
BUSH	334121.29	1120415.24	1A	1488		50	30	12	-7549	-6649	369L	14
FENCE	334112.66	1120415.63	1A	1476		38	18	0	-7455	-6555	499R	2
BUILDING	334113.16	1120419.19	1A	1481		43	23	5	-7158	-6258	428R	8
ANTENNA ON OL HANGAR	334112.20	1120420.72	1A	1517		79	59	41	-7023	-6123	516R	44
WINDSOCK	334120.67	1120422.04	1A	1488		50	30	12	-6971	-6071	346L	16
OL WINDSOCK ON HANGAR	334112.22	1120422.35	1A	1511		73	53	35	-6885	-5985	505R	39
OL ON LIGHTED WINDSOCK	334119.04	1120432.24	1A	1475		37	17	-1	-6099	-5199	241L	6
BUSH	334118.81	1120440.39	1A	1471		33	13	-5	-5411	-4511	266L	5
OL ON LIGHTED WINDSOCK	334118.45	1120502.50	1A	1482		44	24	6	-3544	-2644	359L	25
OL ANEMOMETER	334117.91	1120504.29	1A	1480		42	22	4	-3390	-2490	315L	24
BUSH	334116.46	1120509.38	1A	1457		19	-1	-19	-2951	-2051	200L	3
HANGAR	334109.51	1120508.91	1A	1463		25	5	-13	-2942	-2042	505R	9
HANGAR	334108.82	1120520.85	1A	1458		20	0	-18	-1930	-1030	503R	9
OL ON LIGHTED WINDSOCK	334115.89	1120522.95	1A	1456		18	-2	-20	-1803	-903	222L	8
BUSH	334108.82	1120529.04	1A	1453		15	-5	-23	-1240	-340	455R	7
FENCE	334108.41	1120530.41	1A	1448		10	-10	-28	-1121	-221	489R	2
FENCE	334118.16	1120531.73	1A	1452		14	-6	-24	-1078	-178	503L	6
BUSH	334114.38	1120543.07	1A	1445		7	-13	-31	-96	804	187L	6
FENCE	334117.22	1120546.74	1A	1444		6	-14	-32	193	1093	496L	6
FENCE	334107.46	1120546.03	1A	1440		2	-18	-36	203	1103	493R	2
POLE	334117.68	1120557.55	1A	1468		30	10	-8	1101	2001	605L	3
POLE	334116.63	1120557.54	1A	1467		29	9	-9	1108	2008	500L	2
FLOODLIGHT	334114.83	1120557.76	1A	1465		27	7	-11	1139	2039	319L	-1
WINDSOCK ON BUILDING	334112.14	1120557.91	1A	1452		14	-6	-24	1170	2070	49L	-15
POLE	334106.73	1120557.52	1A	1462		24	4	-14	1176	2076	499R	-5

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AIRPORT ELEVATION 1476

25L PIR 1476/ 334118.101N 11204 7.256W 0860111 1473/1473 334117.469N 1120418.116W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE	334107.46	1120546.03	1A	1440		-36	-33	-36	-8402	-7482	493L	2
FENCE	334117.22	1120546.74	1A	1444		-32	-29	-32	-8392	-7472	496R	6
BUSH	334114.38	1120543.07	1A	1445		-31	-28	-31	-8103	-7184	187R	6
FENCE	334118.16	1120531.73	1A	1452		-24	-21	-24	-7121	-6201	503R	6
FENCE	334108.41	1120530.41	1A	1448		-28	-25	-28	-7078	-6158	489L	2
BUSH	334108.82	1120529.04	1A	1453		-23	-20	-23	-6959	-6039	455L	7
OL ON LIGHTED WINDSOCK	334115.89	1120522.95	1A	1456		-20	-17	-20	-6396	-5477	222R	8
HANGAR	334108.82	1120520.85	1A	1458		-18	-15	-18	-6269	-5349	503L	9
HANGAR	334109.51	1120508.91	1A	1463		-13	-10	-13	-5258	-4338	505L	9
BUSH	334116.46	1120509.38	1A	1457		-19	-16	-19	-5249	-4329	200R	3
OL ANEMOMETER	334117.91	1120504.29	1A	1480		4	7	4	-4809	-3889	315R	24
OL ON LIGHTED WINDSOCK	334118.45	1120502.50	1A	1482		6	9	6	-4655	-3735	359R	25
BUSH	334118.81	1120440.39	1A	1471		-5	-2	-5	-2788	-1868	266R	5
OL ON LIGHTED WINDSOCK	334119.04	1120432.24	1A	1475		-1	2	-1	-2100	-1180	241R	6
OL WINDSOCK ON HANGAR	334112.22	1120422.35	1A	1511		35	38	35	-1314	-394	505L	39
WINDSOCK	334120.67	1120422.04	1A	1488		12	15	12	-1229	-309	346R	16
ANTENNA ON OL HANGAR	334112.20	1120420.72	1A	1517		41	44	41	-1176	-256	516L	44
BUILDING	334113.16	1120419.19	1A	1481		5	8	5	-1041	-121	428L	8
FENCE	334112.66	1120415.63	1A	1476		0	3	0	-744	176	499L	2
BUSH	334121.29	1120415.24	1A	1488		12	15	12	-650	269	369R	14
TREE	334120.31	1120411.33	1A	1497		21	24	21	-328	592	246R	22
BUSH	334123.04	1120410.54	1A	1498		22	25	22	-243	677	517R	23
CACTUS	334121.00	1120410.32	1A	1497		21	24	21	-238	682	310R	22
CACTUS	334122.17	1120406.46	1A	1499		23	26	23	96	1015	406R	23
FENCE	334113.31	1120404.60	1A	1480		4	7	4	190	1110	499L	4
FENCE	334123.32	1120402.69	1A	1489		13	16	13	422	1342	499R	9
CACTUS	334121.12	1120400.91	1A	1494		18	21	18	556	1476	267R	11
CACTUS	334122.51	1120400.01	1A	1490		14	17	14	642	1562	402R	5
GROUND	334115.24	1120355.29	1A	1512		36	39	36	989	1909	358L	20
POLE	334114.56	1120354.75	1A	1534		58	61	58	1029	1949	430L	41
POLE	334123.82	1120354.47	1A	1517		41	44	41	1118	2038	501R	23
CACTUS	334125.70	1120340.97	1A	1591		115	118	115	2269	3189	612R	74
TRANSMISSION TOWER	334110.04	1120301.76	1A	1583		107	110	107	5465	6385	1196L	2

AIRPORT ELEVATION 1476

25L PIR 1476/ 334118.101N 11204 7.256W 0860111 1473/1473 334117.469N 1120418.116W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TRANSMISSION TOWER	334113.53	1120256.80	1A	1595		119	122	119	5907	6827	874L	5
TRANSMISSION TOWER	334116.70	1120252.53	1A	1598		122	125	122	6290	7210	579L	0

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AIRPORT ELEVATION 1476

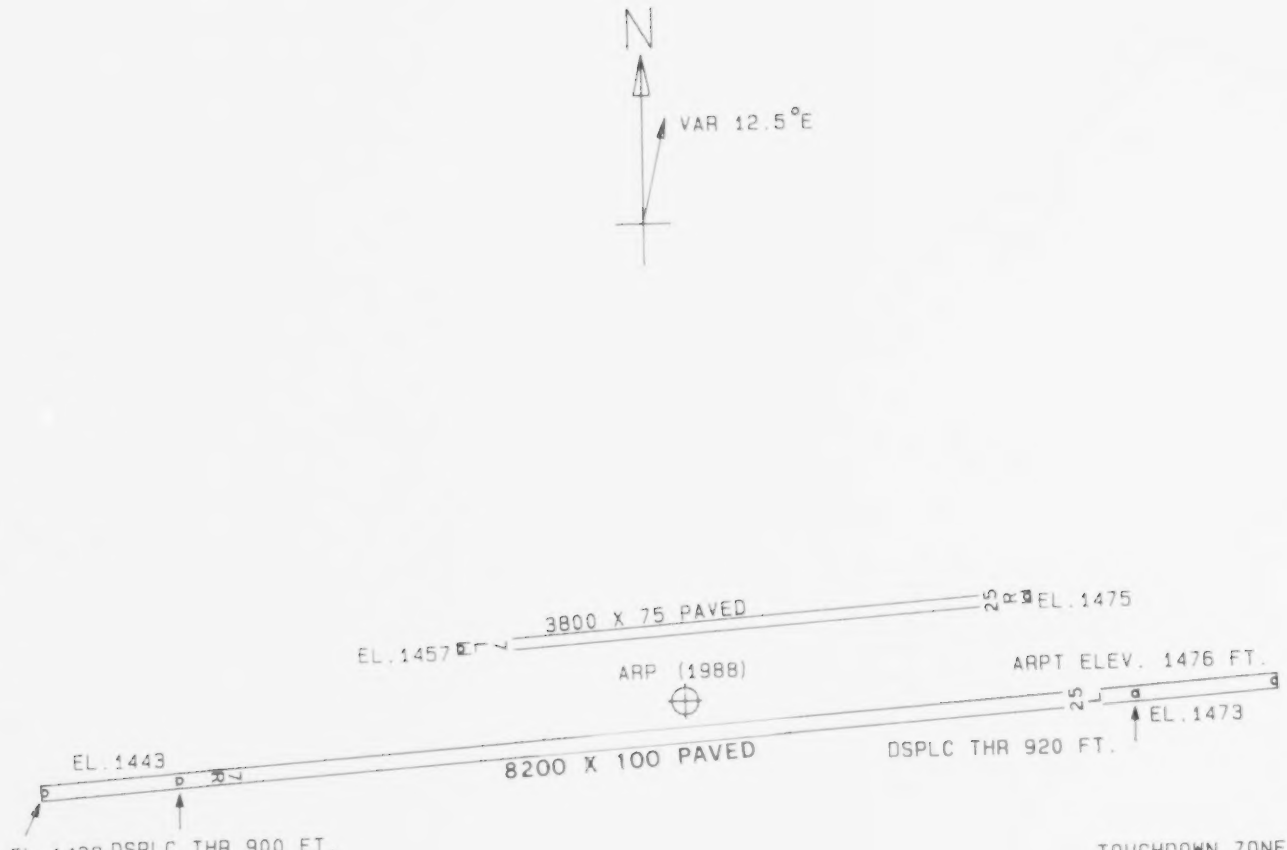
ARP 334117.607N 1120453.480W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
CACTUS	334125.51	1120453.41	1A	1484		8	347 56	799
LIGHT STANDARD	334109.33	1120447.81	1A	1496		20	137 41	964
ANTENNA ON OL CONTROL TR	334107.88	1120453.05	1A	1539		63	165 22	983
HANGAR	334110.91	1120437.30	1A	1475		-1	103 51	1526
CACTUS	334126.51	1120428.60	1A	1489		13	54 20	2287
CACTUS	334127.95	1120423.49	1A	1498		22	55 4	2741
BUSH	334112.30	1120412.54	1A	1486		10	86 18	3501
TREE	334105.41	1120546.16	1A	1478		2	242 2	4619
POLE	334110.02	1120354.22	1A	1513		37	86 12	5066
POLE	334104.51	1120557.56	1A	1467		-9	243 46	5575
ANTENNA ON OL WATER TANK	334042.72	1120545.78	1B	1569		93	218 55	5654
BUSH	334109.38	1120343.40	1A	1582		106	85 29	5980
BUSH	334215.50	1120434.44	1B	1632		156	2 52	6069
OL POLE ON HILL	334107.36	1120341.82	1A	1612		136	87 12	6143
ANTENNA ON OL STACK	334042.58	1120347.81	1B	1564		88	110 2	6583
BUSH	334045.10	1120332.57	1B	1583		107	103 10	7586
POLE	334106.27	1120307.10	1A	1580		104	84 45	9062
BUSH	334158.72	1120317.80	1B	1931		455	50 17	9090
CACTUS	334143.64	1120309.89	1B	1710		234	60 46	9140
TRANSMISSION TOWER	334233.78	1120353.27	1B	1678		202	20 57	9228
BUSH	334019.73	1120311.65	1B	1649		173	111 42	10406
POLE	334133.25	1120700.26	1B	1683		207	265 54	10829
OL ON MOUNTAIN	334141.60	1120703.22	1B	1734		258	269 59	11228
POLE	334102.74	1120240.31	1B	1650		174	85 6	11353
GROUND	334257.60	1120348.72	2C	1805		329	15 55	11494
POLE	334102.62	1120237.02	1B	1644		168	84 58	11630
BUSH	334251.41	1120332.19	1A	1815		339	23 25	11708
OL ON MOUNTAIN	334049.29	1120237.81	1B	2092		616	91 30	11817
OL ON MOUNTAIN	334151.86	1120234.78	1B	1954		478	61 2	12220
BUSH	334033.06	1120233.25	1B	1877		401	98 18	12678
GROUND	334245.82	1120306.41	2C	1651		175	32 54	12703
GROUND	334014.10	1120241.92	1B	1635		159	107 30	12838
BUSH	334258.51	1120306.45	2C	1820		343	29 3	13631

AIRPORT ELEVATION 1476

ARP 334117.607N 1120453.480W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
BUSH	334321.15	1120342.52	2C	2113		637	13 8	13852
BUSH	334307.15	1120307.42	2C	1888		412	26 29	14244
BUSH	333956.14	1120231.22	2C	1828		352	111 54	14572
GROUND	334154.07	1120154.54	2C	1735		259	63 47	15563
GROUND	334253.72	1120204.99	2C	1998		522	43 11	17235



TOUCHDOWN ZONE RUNWAY	ELEVATION
7L	1471
25R	1475
7R	1458
25L	1473

PHOENIX - DEER VALLEY MUNICIPAL AIRPORT

PHOENIX, ARIZONA

(NOT TO SCALE)